ESTTA Tracking number:

ESTTA186587 01/15/2008

Filing date:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

Notice of Opposition

Notice is hereby given that the following party opposes registration of the indicated application.

Opposer Information

Name	Nabaltec AG
Granted to Date of previous extension	01/16/2008
Address	Alustrasse 50-52 92421 Schwandorf, GERMANY

Domestic	Katrin Lewertoff and Leslie K. Mitchell
Representative	Arent Fox LLP
	1675 Broadway
	New York, NY 10019
	UNITED STATES
	lewertoff.katrin@arentfox.com, mitchell.leslie@arentfox.com,
	nyipdocket@arentfox.com Phone:212 484 3900

Applicant Information

Application No	79028600	Publication date	09/18/2007	
Opposition Filing Date	01/15/2008	Opposition Period Ends	01/16/2008	
International Registration No.	0897847 International 03/31/2006 Registration Date			
Applicant	Huntsman Advanced Materials (Switzerland) GmbH Klybeckstrasse 200 CH-4057 Basel SWITZERLAND			

Goods/Services Affected by Opposition

Class 001.

All goods and services in the class are opposed, namely: Chemicals for use in industry; unprocessed resins used as raw materials in solid or liquid form; polymer base compositions used in the manufacture of commercial and industrial goods; polymer base compositions used in the manufacture of electronics, composites and in the aerospace industry; unprocessed polymer base beads used in the manufacturing of commercial and industrial goods and in the aerospace industry; unprocessed benzoxazine chemicals for use in industry; unprocessed base polystyrene resins including or namely foam and styrene monomers

Class 017.

All goods and services in the class are opposed, namely: Plastics in extruded form for general industrial use; plastics in extruded form for use in manufacturing; commercial packing material and insulating material, namely, non-metal hoses, laminates namely foil consisting primarily of plastic with or without a metal layer for application to a substrate and fiber laminates for wrapping conduits and cable trays; benzoxazine as semi-manufactured products, namely rubber, composites in the form of profiles, boards, sheets, rods, powder, and pellets for use in manufacturing, and molded foam

insulated container	packing for	commercial use	e; flexible non-metal pipes	

Grounds for Opposition

Priority and likelihood of confusion Trademark Act section 2(d)

Mark Cited by Opposer as Basis for Opposition

U.S. Registration No.	2484520 Application Date 11/24/1999					
Registration Date	09/04/2001 Foreign Priority NONE Date					
Word Mark	APYRAL					
Design Mark						
Description of Mark	NONE					
Goods/Services	Class 001. First use: chemicals, namely aluminum hydroxide, not including binders for lacquers, for use in the manufacture of carpets, floor coverings, and building materials such as heat relief material, roof coatings, and roof insulation; and chemicals, namely aluminum hydroxide, not including binders for lacquers, for the use in the chemical, rubber, plastic and polyurethane processing, cable, paper, plastic and ceramic industries					

Attachments	75857102#TMSN.gif (1 page)(bytes) 030021.5 notice of opposition.pdf (21 pages)(1647284 bytes)
	1

Certificate of Service

The undersigned hereby certifies that a copy of this paper has been served upon all parties, at their address record by First Class Mail on this date.

Signature	/Katrin Lewertoff/
Name	Katrin Lewertoff
Date	01/15/2008

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

IN THE MATTER OF APPLICATION

Mark: AZYRAL Applicant: Huntsman Advanced Materials (Switzerland) Gm Serial No.: 79/028,600 Published in the		Switzerland) GmbH	
Official Gazette:	September 18, 2007		
NABALTEC AG,)	
	Opposer,)	
	v.) Opposition No.	
HUNTSMAN ADV (SWITZERLAND)	VANCED MATERIALS GMBH,)	
	Applicant.)	

NOTICE OF OPPOSITION

This Notice of Opposition is brought in the matter of pending trademark application
Serial No. 79/028,600, filed March 31, 2006, by Huntsman Advanced Materials (Switzerland)
GmbH (hereinafter "Applicant"), for the registration of the trademark AZYRAL (hereinafter
"Applicant's Mark") covering "chemicals for use in industry; unprocessed resins used as raw
materials in solid or liquid form; polymer base compositions used in the manufacture of
commercial and industrial goods; polymer base compositions used in the manufacture of
electronics, composites and in the aerospace industry; unprocessed polymer base beads used in
the manufacturing of commercial and industrial goods and in the aerospace industry;
unprocessed benzoxazine chemicals for use in industry; unprocessed base polystyrene resins
including or namely foam and styrene monomers" in Class 1 and "plastics in extruded form for

NYC/364372.1

general industrial use; plastics in extruded form for use in manufacturing; commercial packing material and insulating material, namely, non-metal hoses, laminates namely foil consisting primarily of plastic with or without a metal layer for application to a substrate and fiber laminates for wrapping conduits and cable trays; benzoxazine as semi-manufactured products, namely rubber, composites in the form of profiles, boards, sheets, rods, powder, and pellets for use in manufacturing, and molded foam insulated container packing for commercial use; flexible non-metal pipes" in Class 17. The application was published in the Official Gazette on September 18, 2007. Opposer Nabaltec AG (hereinafter "Opposer"), whose address is Alustr. 50-52, 92421 Schwandorf, Germany believes it will be damaged by the registration of such trademark in Classes 1 and 17 and hereby opposes same.

The grounds for opposition are as follows:

- Under the trademark and trade name APYRAL Opposer has engaged in the business of selling chemicals since long prior to Applicant's filing date of March 31, 2006.
 Opposer has continuously used its mark in commerce and has not abandoned use of its mark.
- 2. Opposer has secured valuable rights in the mark APYRAL based on use in U.S. commerce and registration.
- 3. Opposer is the owner of the following trademark registration for APYRAL in the United States Patent and Trademark Office ("USPTO"), which is currently in full force and effect: Incontestable U.S. Registration No. 2,484,520 duly and legally issued on September 4, 2001 on the Principal Register of the Patent and Trademark Office for the mark APYRAL (International Class 1) as applied to "chemicals, namely aluminum hydroxide, not including binders for lacquers, for use in the manufacture of carpets, floor coverings, and building materials such as heat relief material, roof coatings, and roof insulation; and chemicals, namely

NYC/364372.1

aluminum hydroxide, not including binders for lacquers, for the use in the chemical, rubber, plastic and polyurethane processing, cable, paper, plastic and ceramic industries." Said registration is the exclusive property of Opposer and is in all respects valid, subsisting and in full force and effect, a printout of which from the USPTO website is attached as Exhibit 1.

A certified copy of the referenced registration will be submitted during Opposer's testimony period.

- 4. Opposer has expended, and continues to expend significant amounts of money, time and effort in advertising, promoting and popularizing its APYRAL trademark so that the trade in general, and the consuming public in particular, have come to know and recognize Opposer's trademark and products, and to know that the same originate with, and belong to, Opposer.
- 5. Opposer's mark APYRAL is arbitrary as applied to Opposer's goods. The mark is thus highly distinctive and serves as a strong indicator of origin.
- 6. As a consequence of Opposer's continuous and widespread use since at least September 4, 2001, the promotion and advertising of the mark APYRAL, Opposer has acquired substantial and protectable goodwill in such mark in the United States. The mark has been used for and on Opposer's products for a significant period of time and is therefore instantly recognized by consumers as a symbol of the quality of Opposer's goods.
- 7. There is no issue of priority since Opposer's first use (and registration) of its mark precedes Applicant's filing date.
- 8. Applicant's AZYRAL and Opposer's APYRAL are substantially identical the only distinction between them being the Z in Applicant's mark and P in Opposer's mark.

- 9. The goods for which Applicant seeks registration of the AZYRAL mark are highly similar to the goods for which and in connection with which Opposer's APYRAL mark has been used for many years. The goods marketed by Opposer are sold to the same consumers, and are thus in competition with the goods to be marketed and sold by Applicant. In addition, The chemical products sold by Opposer and the goods covered by Applicant's mark may be used in the manufacture of identical goods. Opposer encloses herewith printouts from Opposer's and Applicant's websites, www.nabaltec.de and www.huntsman.com, respectively, as Exhibits 2 and 3 evidencing the high similarity of the goods.
- 10. Applicant's mark is confusingly and deceptively similar to Opposer's mark and is likely to cause confusion and mistake in the minds of the purchasing public and to deceive the purchasing public as to the source or origin of Applicant's goods. Persons familiar with Opposer's trademark would be likely to believe that Applicant's goods originate with or are sponsored by Opposer. Any such confusion in the trade could seriously injure Opposer to the extent that any defect, objection or fault found with Applicant's goods marketed under its mark would necessarily reflect upon the reputation which the Opposer has established for its products offered and merchandised under its mark.
- 11. If the Applicant were granted registration for the subject mark it would thereby obtain at least a *prima facie* exclusive right to the use of its mark on the goods listed in the published application. Such registration and use would be a source of damage and injury to Opposer.
- 12. Based on the foregoing, Opposer believes that it will be damaged by the registration of Applicant's Mark.

WHEREFORE, Opposer respectfully requests that the registration sought by Applicant be refused and that this Opposition be sustained.

Opposer herein appoints Katrin Lewertoff and Leslie K. Mitchell as its attorneys, to transact all business in the Untied States Patent and Trademark office relating to this matter with full power of substitution.

By:

Respectfully submitted,

Date: January 15, 2008

Katrin Lewertoff

Leslie K. Mitchell Arent Fox LLP

1675 Broadway

New York, New York 10019

(212) 484-3900

Attorneys for Opposer,

NABALTEC AG

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing, Notice of Opposition Under 37 CFR § 2.104(a), was served on Applicant via First Class Mail, postage pre-paid addressed to:

Julie A. Katz Welch & Katz, Ltd. 22nd Floor 120 S. Riverside Plaza Chicago, IL 60606

Date: January 15, 2008

Patricia Schaefer

EXHIBIT 1

Latest Status Info

Page 1 of 3

Thank you for your request. Here are the latest results from the TARR web server.

This page was generated by the TARR system on 2008-01-07 15:30:58 ET

Serial Number: 75857102 Assignment Information

Trademark Document Retrieval

Registration Number: 2484520

Mark (words only): APYRAL

Standard Character claim: No

Current Status: Section 8 and 15 affidavits have been accepted and acknowledged.

Date of Status: 2006-11-02

Filing Date: 1999-11-24

Transformed into a National Application: No

Registration Date: 2001-09-04

Register: Principal

Law Office Assigned: LAW OFFICE 115

If you are the applicant or applicant's attorney and have questions about this file, please contact the Trademark Assistance Center at TrademarkAssistanceCenter@uspto.gov

Current Location: 40S -Scanning On Demand

Date In Location: 2007-01-31

LAST APPLICANT(S)/OWNER(S) OF RECORD

1. Nabaltec GmbH

Address:

Nabaltec GmbH Alustrasse 50-52 92421 Schwandorf Fed Rep Germany

Legal Entity Type: Corporation

State or Country of Incorporation: Fed Rep Germany

GOODS AND/OR SERVICES

International Class: 001 Class Status: Active

chemicals, namely aluminum hydroxide, not including binders for lacquers, for use in the manufacture of carpets, floor coverings, and building materials such as heat relief material, roof coatings, and roof insulation; and chemicals, namely aluminum hydroxide, not including binders for lacquers, for the use in the chemical,

Latest Status Info Page 2 of 3

rubber, plastic and polyurethane processing, cable, paper, plastic and ceramic industries

Basis: 44(e)

First Use Date: (DATE NOT AVAILABLE)

First Use in Commerce Date: (DATE NOT AVAILABLE)

ADDITIONAL INFORMATION

Foreign Registration Number: 988976 Foreign Registration Date: 1979-08-13

Country: Fed Rep Germany

Foreign Expiration Date: 2008-09-30

MADRID PROTOCOL INFORMATION

(NOT AVAILABLE)

PROSECUTION HISTORY

NOTE: To view any document referenced below, click on the link to "Trademark Document Retrieval" shown near the top of this page.

2007-01-31 - Case File In TICRS

2006-11-02 - Section 8 (6-year) accepted & Section 15 acknowledged

2006-10-26 - Assigned To Paralegal

2006-09-18 - Section 8 (6-year) and Section 15 Filed

2006-09-18 - TEAS Section 8 & 15 Received

2001-09-04 - Registered - Principal Register

2001-06-12 - Published for opposition

2001-05-30 - Notice of publication

2001-04-12 - Approved for Pub - Principal Register (Initial exam)

2001-03-15 - Examiner's amendment mailed

2000-10-18 - Communication received from applicant

2000-04-19 - Non-final action mailed

2000-04-18 - Assigned To Examiner

ATTORNEY/CORRESPONDENT INFORMATION

Attorney of Record

W. R. Duke Taylor

Correspondent W. R. DUKE TAYLOR HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828 BLOOMFIELD HILLS, MICHIGAN 48303

Domestic Representative W. R. Duke Taylor

EXHIBIT 2

Nabaltec

> PRODUCTS ALUMINIUM HYDROXIDE (APYRAL) News & Press Application Company **Products**

General Information Product Data

Sqof > **Business Divisions** Investor Relations

Certificates

German

Sitemap

Home

Contact

General Information

sodium oxide, which is part of the crystal lattice and partly adhering to the APYRAL® surface in hydrated form, as well as APYRAL® products have a very high chemical purity of at least 99.5 %. The remaining constituents consist mainly of traces of iron and silicon compounds.

sensitive solvents or dispersions – particularly where other additives are used, which are restricted in use to a certain pH Aluminium hydroxide is non-soluble in water with amphoteric characteristics. Due to the sodium oxide components, a watery APYRAL® suspension has a pH value of 8-9. This must be taken into consideration in watery or other alkalirange. In case of doubt, tests must be made for possible interactions. In many applications APYRAL® is not only used as flame retardant, but does also fulfil a function as white pigment. Due to ts whiteness, APYRAL® behaves neutral to the colouring of polymers. The Mohs hardness of 2.5 - 3 causes no problems even in highly filled molten masses. The relatively high heat capacity cp of 1.65 J/gK at 400°K (127°C) has a beneficial effect on the dimensional stability under heat for APYRAL® filled polymers. This even has priority in some applications.

With a specific density of 2.4 g/cm³, APYRAL® is a medium-density mineral filler. As a result of the required filling levels, the density of the flame-retarded plastics is increased compared with the unfilled polymer. In total, however, APYRAL® is one of the most attractive flame retardants, even on the basis of a volume-specific cost balance.

> Imprint Disclaimer

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Nabaltec

Investor Relations News & Press Application

 Certificates **Business Divisions**

Jobs

Sitemap

Home

German

Contact

◇ APPLICATION
◇ FLAME RETARDANCY

Company **Products**

General Information

Flame Retardancy Mechanism Processing Temperatures Smoke Density Flammability

Product Recommendation

Cone Calorimeter

Coatings BMC

Carpet backing Disperions

Foils / Tarpaulins Conveyerbelts

Hand lay-up Cast Resins

Cable Compounds Isolation Foams

Adhesives

Printed Circuit Boards Electrical Insulators Profiles / Hoses

PUR-Foams Pultrusion

RTM SMC Imprint Disclaimer

Fla me retardancy

Flame retardants on the basis of metal hydrates, in particular aluminium and magnesium hydroxide, have established themselves over the years as by far the most important fire retardants.

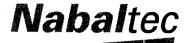
PRINT

Of all flame retardants, the metal hydrates have experienced the highest rate of growth over recent years.

hydroxide, APYRAL® AOH, aluminium oxide hydrate and APYMAG®, magnesium hydroxide, important flame retardants. In particular their environment friendliness and their favourable price-performance ratio make APYRAL®, aluminium

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APYRAL® Product-Information APYRAL 60D, APYRAL 120E



Mineralische Flammschutzmittel für Mineral flame retardants for

- **Kabelindustrie / Wire and cable industry**
- **■** Bauindustrie / Construction industry
- Fahrzeugbau / Public transport

APYRAI Durchschufttsenalyse / Typical analysis		APYRAL 60D	APVRAL 120E
Al (OH) ₃ - Gehalt / -Content	[%]	99.5	99.5
Feuchte / Moisture	[%]	0.3	0.5
Glühverlust / Loss on ignition	[%]	34.6	34.6
Telichengröße / Particle size	1.01	04.0	34.0
(Laserbeugung) / (Laser diffraction)	D ₁₀ [μm]	0.5	
기사는 이 시대는 바람이 됐다.	D ₅₀ [µm]	1.0	0.9
그렇는 이 그 이번 보고 있는 일종화를 보고 그렇게 됐다.	D ₉₀ (μm)	2.3	2.9
Slabrückstand / Slave analysis	- a0 .p	1-4	4.0
(> 45 μm)	[%]	0.02	0.03
Spezifische Oberfläche / Specific surface area			Viv
(BET)	[m²/g]	6	11
Schüttdichte / Bulk density			
	[kg/m³]	350	200
Claufnahme / Oil absorption			
	[ml/100g]	33	37
WellSgrad / Whiteness			•
(Elrepho 457 nm)	[%]	98	98
Spezifische keitfählgkeit / Specific conductivity			455 E
	[µS/cm]	50	100
Brechungsindex / Refractive Index			IVV
		1.58	1.58
Härteindex (Mohs) / Mohs härdness	2.66%		
		3	3
Dichte / Denaity	100		V
	[q/cm³]	2.4	2.4

Produktvorteile / Product properties

- Sehr höhe Partikelfeinheit
 Ultra fine particles
- Sehr enge Komverteilung

 Very narrow grain size distribution
- Plättchenförmige Partikelmorphologie Platy like morphology
- Hohe spezifische Oberfläche High specific surface area

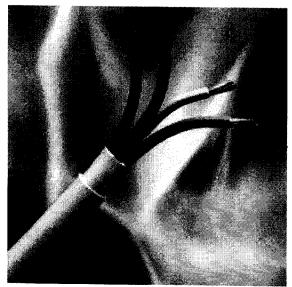


Nabaltec





Beispiele für den Einsatz von APYPAL 60D, APYPAL 120E / Examples for the use of APYPAL 60D, APYPAL 120E



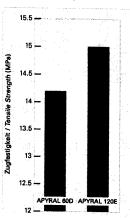
Halogenfrei flammgeschütze Kabel Halogen free flame redardant cables

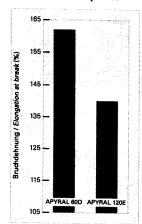


Rauchgasreduzierter Thermoisolationsschaum Smoke suppressed thermoinsulation foam

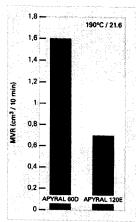
Produkt-/ Product-Information

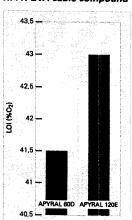
Mechanische Eigenschaften eines HFFR-EVA Kabelcompound Mechanical Properties of an HFFR-EVA cable compound





Schmelzeindex MVR und LOI eines HFFR-EVA Kabelcompounds Melt Volume Rate and LOI of an HFFR-EVA cable compound





For further information, please contact:

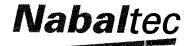
Nabaltec AG P. O. Box 1860 · D-92409 Schwandorf Phone +49(0) 94 31 53 - 0 Fax +49(0) 94 31 615 57 www.nabaltec.de

Business Unit Flame Retardants

Phone +49(0) 94 31 53-4 62/4 58/4 67 fillers@nabaltec.de

All data listed in this brochure are reference values and subject to production tolerances. These values are exclusive to the product description and no guarantee is placed on the properties. It remains the responsibility of the users to test the suitability of the product for their application.

APYRAL® Product-Information APYRAL 20X, APYRAL 30X



Mineralische Flammschutzmittel für Mineral flame retardants for

- Bauindustrie / Construction industry
- Fahrzeugbau / Public transport
- Elektro-/Elektronikindustrie / Electronic industry

Durchschrittennalyse / Typical analysis Al (OH) ₃ - Gehalt / -Content	[%]	APYRAL 20X 99.7	99.7
Feuchte / Moisture	[%]	0.1	99.7 0.1
Glühverlust / Loss on ignition	[%]	34.6	34.6
Tellchengrößs / Particle size		34.0	34.0
(Laserbeugung) / (Laser diffraction)	D ₁₀ [µm]	0.5	0.5
	D ₅₀ [μm]	8	7
	D ₉₀ (μm)	80	45
Slebrücketand / Sleve analysis			
(> 45 µm)	[%]	35	10
Spezifische Oberfiliche / Specific surface area	AT HE SEARCH THE SEARCH	10.0	
(BET)	[m²/g]	1.2	1.5
Schüttdichte / Bulk density	THE THE TERMS IN	P F C	
	[kg/m³]	550	500
Ölaufnahme / Oll absorption	可以是一种的第三人称单数形式。	977	
	(ml/100g)	12	13
Weißgrad / Whiteness		54. 10. 15.	
(Elrepho 457 nm)	[%]	90	94
Specifische Leitfähligkeit / Specific conductivi		745 E. F.	
	[µS/cm]	50	50
Brechungsindex / Refrective Index		, 12	15 1
Härteindex (Mohs) / Mohs hardness		1.58	1.58
American (moles / 1400) Seldiess	Facility Constitution of the Constitution	1	March Control
Dichte / Denefty		3	3
Assistant Control of the Control of			
	[g/cm³]	2.4	2.4

Produktvorteile/ Product properties

- Bimodale Komverteilung Bimodal grain size distribution
- Extrem niedrige Viskosität

 Extremely low viscosity
- Extrem hohe Füllgrade

 Extremely high filling levels
- Optimierte Topfzeiten
 Optimised pot life



Nabaltec

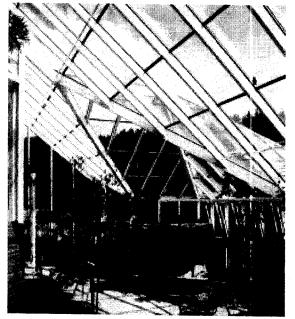




Beispiele für den Einsatz von APYRAL 20X, APYRAL 30X / Examples for the use of APYRAL 20X, APYRAL 30X



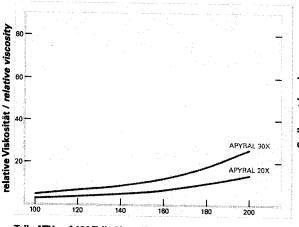
Innenausstattung Schienenfahrzeuge Interiors for railway cars



Profile im Objektbau / Constructions profiles

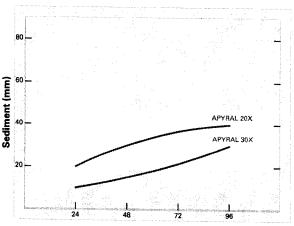
Produkt-/Product-Information

Viskositätsverhalten in UP-Harz Palapreg P17 Viscosity behaviour in UP-resin Palapreg P17



Teile ATH auf 100 Teile Harz / Parts of ATH in 100 parts of resin

Absetzverhalten in UP-Harz Palapreg P80 (Füllgrad 50%)
Settling behaviour in UP-resin Palapreg P80 (Filling level 50%)



Zeitdauer / Period of time (h)

For further information, please contact:

Nabaltec AG P. O. Box 1860 · D-92409 Schwandorf Phone +49(0) 94 31 53 - 0 Fax +49(0) 94 31 615 57 www.nabaltec.de

Business Unit Flame Retardants

Phone +49(0) 94 31 53-4 62/4 58/4 67 fillers@nabaltec.de

All data listed in this brochure are reference values and subject to production tolerances. These values are exclusive to the product description and no guarantee is placed on the properties. It remains the responsibility of the users to test the suitability of the product for their application.

EXHIBIT 3

Home Careers	Sustainability >> Sustain	Huntsman Ma	Power and Electronic
Contact Service Sitemap	search	Search Technical Datasheet	Search site

adhesive products. Environment, health & safety Administrative Headquarters 10003 Woodloch Forest Drive Sustainable chemistry by Fel.: +1-801-584-5700 World Headquarters Join our mailing list 500 Huntsman Way The Woodlands Media center Salt Lake City **Texas 77380** Utah 84108 Showcase Contacts division USA

Careers Sustainability Investor relations Locations News Products & bility >> Sustainable chemistry by division >> e-mail ⊠ print 🖹

ntsman Materials & Effects - Advanced Materials

Power and Electronics. In their cured state, Huntsman's environmentally friendly epoxy products replace liquid insulation systems based on mineral oil. For example, our products permit the use of cast resin transformers instead of oil-filled transformers in windmills, and fully encapsulated vacuum switchgears instead of oil- or SF6 (a suspected greenhouse gas) insulated products.

Huntsman is in the process of developing a new binder formulation for use in bi-polar plates that comprise fuel cells for automotive and military vehicles, based on Huntsman's patented AZYRAL® halogen-free resin chemistries. Huntsman anticipates the new binder will work in synergy with the physical performance capabilities of natural graphite and the efficient, economical manufacturing processes to produce fuel cells that will power pollution-free cars of the future.

next generation aviation repair, maintenance and overhaul requirements and non-brominated, flame-retardant Aerospace. Products include a new range of adhesive products specifically designed and qualified to support

include: LED epoxy encapsulants, PROBELEC® liquid dielectrics and AZYRAL® high performance laminating solder masks which offer systems that are halogen-free, optimized for lead-free soldering and conform with Electronics include PROBIMER® 77 (aqueous developable) and PROBIMER® 65 (solvent developable) latest Restriction of Hazardous Substances (RoHS) standards. Other environmentally friendly products systems.

Stereolithography. Huntsman has developed SL7800, a clear general purpose resin specially suited for foundry application, to be antimony free.

Home | Careers | Sustainability | Investor relations | Locations | News | Products & services | Huntsman | Legal notices

Tel.: +1-281-719-6000

http://www.huntsman.com/eng/Sustainability/Sustainable_chemistry_by_division/Huntsman_Materials_&_Effects_-_Advanced_Materia... 1/4/2008

Sport & Leisure

Wind Energy

MSDS

Contact IServ ice ISitem ap	A dom
search Search Technical Datasheet	Ad
Search site	Gree

Advanced Materials launches Azyral®

Adhesives	
Aerospace	
Automotive	
Coatings	
Construction	
Electronics	
Innovation Highlights	
Product Finder	
Automotive	
General Industry	
Lighting	***************************************
Telecommunication	*********
Services	~~~~~
Seneral Industry	***************************************
Marine	~~~~~~~~~~
hedical	
Power, Transmission &	***************************************

	print 🗗
	e-mail 区 print 昼
Customer Service	
Careers	
Innovation	
Markets	nics >>
About us	ne >> Electronics >>

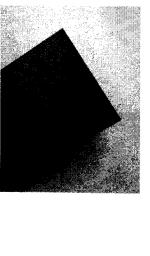
vanced Materials launches Azyral®

in' solutions for high performance laminates

solutions in Electronics. These systems have been optimized to help protect the environment while meeting Azryal® laminating resin systems from Advanced Materials respond to the market expectation for 'green' today's needs for advanced performance. "The product characteristics of the patented Azyral® systems exceed those of conventional laminates in many aspects and open up new possibilities for the build-up of printed circuit boards," says Harald Wiedemann, global marketing director, Huntsman Advanced Materials.

Product properties include:

- halogen-free technology
- high thermal resistance
- compatibility with lead-free soldering
- low dissipation factor for high frequencies
- low dielectric constant for high-speed applications
 - FR4 process compatbility
 - UL 94 V-0 passed



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	Huntsman In	troduces Halo	gen-Free Lam	inating Resi	Huntsman Introduces Halogen-Free Laminating Resins for Printed Circuit Board
	FOR IMMEDIA	FOR IMMEDIATE RELEASE			
Huntsman Advanced Materials	CONTACT:				
Klybeckstrasse 200 Basel 4057 Switzerland	Kathy Avery Avery Communications	nications			
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LAMINATING RESINS FOR PRINTED CIRCUIT BOARDS HUNTSMAN INTRODUCES HALOGEN-FREE

Huntsman Advanced Materials

Maria Pate

281-719-7400

- Huntsman Advanced Materials has introduced two halogen-free laminating resins that comply with the most recent AZYRAL® one- and two-component laminating systems combine versatile processing capabilities with good result, multilayer printed circuit boards and other electrical components fabricated with new AZYRAL laminating materials can withstand exposure to extremely tough operating electrical characteristics and an innovative combination of physical properties. regulatory requirements for printed circuit board manufacturing. THE WOODLANDS, Texas, October 16, 2006 conditions.

use with lead-free soldering operations. Both AZYRAL XU8282-1 and two-component AZYRAL XTW8291/XTW8293 laminating systems feature easy-to-process, low viscosities Processing. Halogen-free AZYRAL XU8282-1 resin is RoHS compliant and suitable for for use with FR4 processing. They are nondicy-curing products and meet the requirements of UL 94 V-O specifications.

Electrical Characteristics. One- and two-component AZYRAL materials produce printed circuit boards with a low dielectric constant, low dissipation factor, good surface resistivity and good volume resistivity.

ow moisture absorption, good thermal stability with glass transition temperatures in the Performance Properties. AZYRAL resins are high-temperature resistant materials with 320-482°F (160-250°C) range, low coefficient of thermal expansion and low shrinkage. For more information about the new AZYRAL halogen-free laminating resins, please * AZYRAL is a registered trademark of Huntsman Corporation or an affiliate thereof in contact Customer Service by calling 888-564-9318 or e-mail: electronics@huntsman.com. one or more, but not all, countries.

industries including chemicals, plastics, automotive, aviation, textiles, footwear, paints packaging and, later, rapid and integrated growth in petrochemicals, Huntsman today has Its operating companies manufacture products for a variety of global and coatings, construction, technology, agriculture, health care, detergent, personal care, furniture, appliances and packaging. Originally known for pioneering innovations in 15,000 employees and 78 operations in 24 countries. The Company had 2005 revenues Huntsman is a global manufacturer and marketer of differentiated and commodity of \$13 billion. chemicals.

circumstances and involve risks and uncertainties that may affect the company's operations, markets, products, services, prices and other factors as discussed in the Statements in this release that are not historical are forward-looking statements. These statements are based on management's current beliefs and expectations. The forwardlooking statements in this release are subject to uncertainty and changes in Huntsman companies' filings with the Securities and Exchange Commission. Significant The company assumes no obligation to provide revisions to any forward-looking statements should circumstances change, except as otherwise required by securities and risks and uncertainties may relate to, but are not limited to, financial, economic, Accordingly, there can be no assurance that the company's expectations will be realized. political, legal, regulatory and technological factors. competitive, environmental, other applicable laws. 현 Back